

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5 Lease Serial No NMLC-029426B			
b Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input checked="" type="checkbox"/> Diff Resvr, Other _____						6 If Indian, Allottee or Tribe Name			
2 Name of Operator APACHE CORPORATION						7 Unit or CA Agreement Name and No			
3 Address 303 VETERANS AIRPARK LANE, STE 3000 MIDLAND, TX 79705						3a Phone No (include area code) 432-818-1906		8 Lease Name and Well No CROW FEDERAL #1	
4 Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SEC-9-T17S-R31E, UNIT A, 1040'FNL, 660' FE At top prod interval reported below SAME At total depth SAME						9 AFI Well No 30 015 34126			
10 Field and Pool or Exploratory						11 Sec, T, R, M, on Block and Survey or Area SEC-9-T17S-R31E, UNIT A			
12 County or Parish EDDY						13 State NM			
14 Date Spudded 08/12/2011		15 Date T D Reached 09/15/2005		16 Date Completed 10/09/2006 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod		17 Elevations (DF, RKB, RT, GL)* 3905' GL			
18 Total Depth MD 12140 TVD 12140		19 Plug Back T D MD 6450 TVD 6450		20 Depth Bridge Plug Set MD TVD		See Remarks*			
21 Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL - ATTACHED						22 Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)			
23 Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No of Sks & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8	54.5	0	580		550 SX C		0	NONE
12-1/4	8-5/8	32	0	4001		1550 SX C		0	NONE
7-7/8	5-1/2	17	0	12139		2265 SX C		0	NONE
24 Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8	6417.21								
25 Producing Intervals									
Formation	Top	Bottom	26 Perforation Record						
A) UPPER BLINEBRY	5816	5834	5816-5834	Size	No Holes	Perf Status			
B) LOWER BLINEBRY	6223	6404	6223-6404		17	OPEN *SEE REMARKS			
C) MID BLINEBRY	5919	6105	5919-6105		17	OPEN			
D) YESO 1 (previous compl)	5585	5783	5585-5783		20	OPEN			
27 Acid, Fracture, Treatment, Cement Squeeze, etc									
Depth Interval	Amount and Type of Material								
5816-5834	AT w/2500 gal 15% NEFE. FT w/112,536 gal Frac Fluid w/111,000# 16/30 WHT SD.								
6223-6404	AT w/2500 gal 15% NEFE FT w/108,650 gal Frac Fluid w/135,000# 16/30 WHT SD.								
5919-6105	AT w/2500 gal 15% NEFE. FT w/126,351 gal Frac Fluid w/108,400# 16/30 WHT SD.								
28 Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method pmpg
8-8-2011	9-27-11	24	➔	22	13	130	35.4		
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status active	
			➔						
28a Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			➔						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			➔						

*(See instructions and spaces for additional data on page 2)

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OCT 20 2011
NMOC DARTESIA

ACCEPTED FOR RECORD
OCT 15 2011
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28b Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29 Disposition of Gas (Solid, used for fuel, vented, etc)

30 Summary of Porous Zones (Include Aquifers)

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31 Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top
					Meas Depth

Bureau of Land Management
RECEIVED
OCT 13 2011
Carlsbad Field Office
Carlsbad, NM

32 Additional remarks (include plugging procedure)

*CIBP @ 11700 W/35' CMT; CIBP @ 11350 W/35' CMT; CIBP @ 10000 W/35' CMT; CIBP @ 9000 W/35' CMT; CIBP @ 8375 W/20' CMT
SQZ YESO @ 5130-5267' 385 SX CLASS C.

33 Indicate which items have been attached by placing a check in the appropriate boxes

- ☒ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) BEV HATFIELD

Title SR. STAFF ENGINEERING TECH

Signature

Date 10/11/2011

Title 18 U S C Section 1001 and Title 43 U S C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Continued on page 3)

(Form 3160-4, page 2)

GL=3905'
KB=16'

Apache Corporation – Crow Federal #1

Wellbore Diagram – Current Status

Date : 10/3/11
S Hardin

API: 30-015-34126

Surface Location

1040' FNL & 660' FEL, Unit A
Sec 9, T17S, R31E, Eddy County, NM



Surface Casing

13 3/8" 54.5# csg @ 580' cmt'd w/550 sx

Hole Size
=17 1/2"

TOC @
Surface
Circ

Perf Yeso2 @ 5130'-5267' 12/06
7/11: Sq'd w/ 100 sx Class C w/ 2% CALCHL & 200 Sx Class
C w/ 3 pps KOL seal & 85 sx Class C Neat

Hole Size
=12 1/4"

TOC @
Surface
Circ

Perf Yeso1 @ 5585', 5608'-98', 5703'-83' 10/06
7/11: Perf Upper Blinebry @ 5816'-5834'
7/11: Perf Middle Blinebry @ 5919'-6105'
7/11: Perf Lwr Blinebry @ 6223'-6404'

Intermediate Casing

8 5/8" 32# csg @ 4001' cmt'd w/1550 sx

Hole Size
=7 7/8"

TOC @
Surface
Circ

CIBP @ 8375' w/20' cmt
Perf @ Upper WC 8413'-8488'

CIBP @ 9000' w/35' cmt

Perf WC @ 9444'-48', 9450'-58', 9560'-69', 9574'-79',
9582'-86'

CIBP @ 10000' w/35' cmt

Perf Canyon @ 10170'-99', 10200'-93', 10406'-98', 10506'

CIBP @ 11350' w/35' cmt
Perf Atoka @ 11409'-11414'

CIBP @ 11700 w/35' cmt
Perf Morrow @ 11768'-11834'

TUBING DETAIL			
Qty	Description	Length	Depth
196	2 7/8" J-55 8id EUE 6.5#	6345'	6417'
	TAC (8/8/11)		5550'

LG Casing

5 1/2" 17# csg @ 12139' cmt'd w/2265 sx

PBTD =8355'
TVD =12140'